

CUSTOMER NO.: 27623

Sheet 1 of 25

FORM PTO-1449

Docket Number (Optional)

Application Number

460.1882USQ3

10/674,284

Applicant

Lieberman et al.

Filing Date

September 29, 2003

Group Art Unit

3727

INFORMATION DISCLOSURE CITATION  
IN AN APPLICATION

(Use several sheets if necessary)

## U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
TNS	4,138	8/1845	Pratt			
	236,583	1/1881	Hayes			
	281,608	7/1883	Browne			
	625,055	5/1899	Painter			
	721,722	3/1903	Morton			
	736,694	8/1903	Crane, Jr.			
	745,477	12/1903	Bowers			
	795,642	7/1905	Nelson			
	820,987	5/1906	Perotti			
	858,898	7/1907	McNutt			
	998,052	7/1911	Treiber			
	1,098,653	6/1914	Whisenant			
	1,122,868	12/1914	Davis			
	1,206,661	11/1916	Booth			
	1,280,942	10/1918	Apple			
	1,360,893	11/1920	Cowie			
	1,366,727	1/1921	Gerstner			
	1,431,762	10/1922	Sellers			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

## OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)


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## U. S. PATENT DOCUMENTS

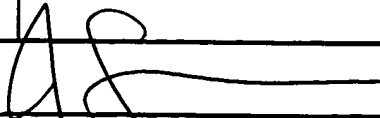
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JNS	1,458,366	6/1923	Smallwood			
	1,477,261	12/1923	Hart			
	1,509,734	9/1924	Langley			
	1,825,553	9/1931	Smith			
	1,840,190	1/1932	Dyck			
	1,859,397	5/1932	Johnson et al.			
	1,989,714	2/1935	Statham			
	2,012,113	8/1935	Thompson			
	2,023,267	12/1935	Rapt et al.			
	2,063,424	12/1936	Ferguson			
	2,107,442	2/1938	Hughes			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
JNS	497999	4/1930	Germany				
	66 8247	11/1937	Germany				
	21 37 184	2/1973	Germany				
	26 09 310	9/1976	Germany				
	21 28 875	12/1978	Germany				

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)


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JNS	2,122,299	6/1938	Sloan			
	2,125,609	8/1938	Goodwin			
	2,162,455	6/1939	Hoge			
	2,174,361	9/1939	Condon			
	2,175,052	10/1939	Bull			
	2,197,766	4/1940	Mueller			
	2,213,465	9/1940	Gay			
	2,223,179	11/1940	Lougheed			
	2,236,031	3/1941	Hall			
	2,321,236	6/1943	Parkin			
	2,372,281	3/1945	Jordan			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
JNS	31 18976 A1	12/1982	Germany				
	39 41 668 A1	4/1991	Germany				
	29 500 819	4/1995	Germany				
	29 706 653	8/1997	Germany				
	0232571 A1	8/1987	Europe				
	0257 880 A1	3/1988	Europe				

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)


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## U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
TNS	2,414,697	1/1947	Pettersson			
	2,456,989	12/1948	Polcyn			
	2,519,986	8/1950	Trout			
	2,532,729	12/1950	Millstein			
	2,534,614	12/1950	Michael			
	2,544,464	3/1951	Matthews et al.			
	2,557,817	6/1951	Dutton			
	2,569,139	9/1951	Abelson			
	2,584,359	2/1952	Miles			
	2,608,841	9/1952	Price			
	2,622,420	12/1952	Rice			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
TNS	0265125 A1	4/1988	Europe				
	0278 125 A2	8/1988	Europe				
	0326 743 A2	8/1989	Europe				
	0382 631 A1	8/1990	Europe				
	0384394 A2	8/1990	Europe				

## OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)


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## U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JNS	2,623,368	12/1952	Olsen			
	2,623,524	12/1952	Clemens			
	2,628,616	2/1953	Ransom			
	2,646,670	7/1953	Spalding et al.			
	2,655,920	10/1953	Cronin			
	2,688,326	9/1954	Lerman			
	2,715,980	8/1955	Frick			
	2,736,446	2/1956	Raiche			
	2,740,229	4/1956	Wittwer			
	2,745,568	5/1956	Newton			
	2,753,068	7/1956	Robinson			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
JNS	0395 380 A2	10/1990	Europe				
	0160336 B1	3/1992	Europe				
	0555 623 A1	8/1993	Europe				
	0634922 B1	6/1998	Europe				
	996.998	12/1951	France				

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)


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## U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
TNS	2,758,755	8/1956	Schafner			
	2,765,639	10/1956	Bryant			
	2,785,841	3/1957	Westgate			
	2,792,696	5/1957	Stayart			
	2,796,062	6/1957	Tupper			
	2,816,548	12/1957	Tupper			
	2,876,772	3/1959	Witz			
	2,950,033	8/1960	Henchert			
	2,989,961	6/1961	Blanchett			
	3,004,566	10/1961	Raimo			
	3,081,006	3/1963	Land			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
TNS	1364891	5/1964	France				
	1437341	3/1966	France				
	116872	6/1918	United Kingdom				
	460274	1/1937	United Kingdom				
	1046518	10/1966	United Kingdom				

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JNS	3,085,710	4/1963	McIlroy			
	3,139,064	6/1964	Harle			
	3,140,007	7/1964	Nettleship			
	3,143,429	8/1964	Swanson et al.			
	3,179,276	4/1965	Safianoff			
	3,182,843	5/1965	Foye			
	3,241,726	3/1966	Chester			
	3,273,703	9/1966	Stribley			
	3,275,180	9/1966	Optner et al.			
	3,302,644	2/1967	Kennedy et al.			
	3,310,193	3/1967	Macpherson			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
JNS	1229426	4/1969	United Kingdom				
	1253398	2/1970	United Kingdom				
	1447626	8/1976	United Kingdom				
	1474620	5/1977	United Kingdom				
	2 015 350 A	9/1979	United Kingdom				

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## U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JNS	3,342,379	9/1967	Foley			
	3,355,047	11/1967	De Sole			
	3,360,149	12/1967	Roth			
	3,360,161	12/1967	Smith			
	3,366,261	1/1968	Dewey			
	3,372,832	3/1968	Yeater et al.			
	3,393,817	7/1968	Meierhoefer			
	3,424,157	1/1969	Di Paolo			
	3,435,987	4/1969	Wittwer			
	3,438,257	4/1969	Nichols et al.			
	3,438,527	4/1969	Gamblin, Jr.			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
JNS	2 029 379 A	3/1980	United Kingdom				
	2053865 A	2/1981	United Kingdom				
	2 098 958 A	12/1982	United Kingdom				
	2 131 301 A	6/1984	United Kingdom				
	2139903 A	11/1984	United Kingdom				

## OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)


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## U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JNS	3,445,042	5/1969	Elmore et al.			
	3,490,488	1/1970	Grist			
	3,511,407	5/1970	Palma			
	3,635,380	1/1972	Fitzgerald			
	3,650,271	3/1972	Pelli			
	3,669,323	6/1972	Harker et al.			
	3,672,114	6/1972	Sacks			
	3,672,547	6/1972	Kozlowski			
	3,674,183	7/1972	Venable et al.			
	3,704,803	12/1972	Ponder			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
JNS	2166121 A	4/1986	United Kingdom				
	2 169 210 A	7/1986	United Kingdom				
	2172793A	10/1986	United Kingdom				
	2183225 A	6/1987	United Kingdom				
	2206106 A	12/1988	United Kingdom				

## OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)


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## U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
TNS	3,704,819	12/1972	Lindstrom			
	3,718,140	2/1973	Yamauchi			
	3,739,938	6/1973	Paz			
	3,785,539	1/1974	Wetterek			
	3,797,696	3/1974	Dibrell			
	3,817,418	6/1974	Mastrovito			
	3,833,154	9/1974	Markowitz			
	3,854,617	12/1974	Edwards			
	3,874,563	4/1975	Schwartzman			
	3,878,962	4/1975	Holbrook et al.			
	3,888,373	6/1975	Gach et al.			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
TNS	2 226 014 A	6/1990	United Kingdom				
	2238729	5/1991	United Kingdom				
	2 266 045 A	10/1993	United Kingdom				
	2 279 130 A	12/1994	United Kingdom				
	145824	2/1961	Russia				

## OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)


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## U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
MS	3,905,512	9/1975	Albert et al.			
	3,915,331	10/1975	Chenault			
	3,921,630	11/1975	McPhee			
	3,964,509	6/1976	Daubenberger et al.			
	3,964,631	6/1976	Albert			
	4,002,168	1/1977	Petterson			
	4,005,799	2/1977	Mannaerts			
	4,051,971	10/1977	Saleri et al.			
	4,057,177	11/1977	Laauwe			
	4,083,467	4/1978	Mullins et al.			
	4,088,166	5/1978	Miller			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO
MS	WO 93/19718	10/1993	PCT				
	WO 94/04023	3/1994	PCT				
	WO 97/08979	3/1997	PCT				

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## U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
WJ	4,093,096	6/1978	Augros			
	4,098,434	7/1978	Uhlig			
	4,121,731	10/1978	Okerstrum			
	4,133,457	1/1979	Klassen			
	4,135,513	1/1979	Arisland			
	4,138,033	2/1979	Payne et al.			
	4,139,124	2/1979	Ferrante			
	4,146,157	3/1979	Dixon, Sr. et al.			
	4,157,144	6/1979	Weiler et al.			
	4,166,553	9/1979	Fraterrigo			
	4,171,060	10/1979	Howard et al.			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)


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## U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JWS	4,184,604	1/1980	Amberg et al.			
	4,204,604	5/1980	Morin et al.			
	4,238,045	12/1980	D'Andria			
	4,243,156	1/1981	Lobbestael			
	4,245,752	1/1981	Prueher			
	4,303,170	12/1981	Panicci			
	4,310,101	1/1982	Sekine			
	4,314,658	2/1982	Laauwe			
	4,340,054	7/1982	Michaels			
	4,350,260	9/1982	Prueher			
	4,356,935	11/1982	Kamin			

## FOREIGN PATENT DOCUMENTS

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	Applicant Lieberman et al.	
	Filing Date September 29, 2003	Group Art Unit 3727

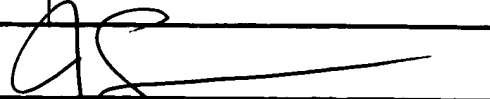
## U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
NS	4,361,249	11/1982	Tuneski et al.			
	4,388,996	6/1983	Panicci			
	4,401,224	8/1983	Alonso			
	4,434,810	3/1984	Atkinson			
	4,441,623	4/1984	Antoniak			
	4,441,624	4/1984	Sokolowski			
	4,463,859	8/1984	Greene			
	4,470,523	9/1984	Spector			
	4,519,518	5/1985	Wiles et al.			
	4,519,530	5/1985	Schmidt			
	4,540,102	9/1985	Wiedmer			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation	
						YES	NO

## OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, Etc.)

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	Applicant	
	Lieberman et al.	
	Filing Date	Group Art Unit
	September 29, 2003	3727

## U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
TPS	4,545,491	10/1985	Bisgaard et al.			
	4,565,308	1/1986	Yuhl, Jr.			
	4,574,970	3/1986	Schwarz			
	4,582,214	4/1986	Dart et al.			
	4,591,063	5/1986	Geiger			
	4,596,341	6/1986	Bruffey			
	4,600,111	7/1986	Brown			
	4,607,755	8/1986	Andreozzi			
	4,613,050	9/1986	Atkin et al.			
	4,616,768	10/1986	Flier			
	4,620,648	11/1986	Schwartzman			

## FOREIGN PATENT DOCUMENTS

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Application Number

10/674,284

Applicant

Lieberman et al.

Filing Date

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## U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JNS	4,638,918	1/1987	Martinez			
	4,640,424	2/1987	White			
	4,646,945	3/1987	Steiner et al.			
	4,660,747	4/1987	Borg et al.			
	4,685,577	8/1987	Chen			
	4,711,365	12/1987	Fomby			
	4,723,668	2/1988	Chen			
	4,723,688	2/1988	Munoz			
	4,726,484	2/1988	Lutz			
	4,728,006	3/1988	Drobish et al.			
	4,747,519	5/1988	Green et al.			

## FOREIGN PATENT DOCUMENTS

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						YES	NO

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## U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JNS	4,749,108	6/1988	Dornsbusch et al.			
	4,756,440	7/1988	Gartner			
	4/760,937	8/1988	Evezich			
	4/779,766	10/1988	Kinsley			
	4,782,975	11/1988	Coy			
	4,785,978	11/1988	Kano et al.			
	4,795,063	1/1989	Sekiguchi et al.			
	4,796,774	1/1989	Nabinger			
	4,801,027	1/1989	Hunter			
	4,815,616	3/1989	Silvenis			
	4,823,967	4/1989	Thompson			

## FOREIGN PATENT DOCUMENTS

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## U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JNS	4,828,126	5/1989	Vinciguerra			
	4,828,141	5/1989	Coy			
	4,836,404	6/1989	Coy			
	4,850,496	7/1989	Rudell et al.			
	4,865,207	9/1989	Joyner et al.			
	4,909,416	3/1990	Evezich			
	4,921,112	5/1990	Juhlin et al.			
	4,928,861	5/1990	Schiemann			
	4,941,598	7/1990	Lambelet, Jr. et al.			
	4,946,062	8/1990	Coy			
	4,953,737	9/1990	Meyers			

## FOREIGN PATENT DOCUMENTS

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				Filing Date		Group Art Unit	
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<b>U. S. PATENT DOCUMENTS</b>							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE	
	4,961,510	10/1990	Dvoracek				
	4,987,740	1/1991	Coleman				
	4,991,745	2/1991	Brown				
	4,993,568		Morifuji et al.				
	4,993,569	2/1991	Osip et al.				
	5,005,737	4/1991	Rohr				
	5,033,647	7/1991	Smith et al.				
	5,033,655	7/1991	Brown				
	5,035,340	7/1991	Timmons				
	5,040,756	8/1991	Cava				
	5,050,758	9/1991	Freeman et al.				
	5,060,811	10/1991	Fox				
<b>FOREIGN PATENT DOCUMENTS</b>							
	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	Translation YES      NO	
<b>OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)</b>							
EXAMINER	DATE CONSIDERED						
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## U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JNS	5,071,017	12/1991	Stull			
	5,072,842	12/1991	White			
	5,079,013	1/1992	Belanger			
	5,099,998	3/1992	Curzon et al.			
	5,100,930	3/1992	Fukui et al.			
	5,101,991	4/1992	Morifuji et al.			
	5,105,976	4/1992	Patterson			
	5,115,950	5/1992	Rohr			
	5,140,053	8/1992	Yamamoto et al.			
	5,147,066	9/1992	Snider			
	5,150,800	9/1992	Sarter et al.			

## FOREIGN PATENT DOCUMENTS

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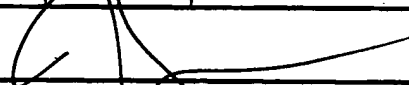
## U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JNS	5,186,347	2/1993	Freeman et al.	220	714	
	5,203,470	4/1993	Brown			
	5,211,298	5/1993	Bloch			
	5,213,236	5/1993	Brown et al.			
	5,271,531		Rohr			
	5,275,312	1/1994	Labruzzo			
	5,295,597	3/1994	Green			
	5,339,995	8/1994	Brown et al.			
	5,346,107	9/1994	Bouix et al.			
	5,363,983	11/1994	Proshan			
	5,366,109	11/1994	Proshan			
	5,377,877	1/1995	Brown et al.			

## FOREIGN PATENT DOCUMENTS

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## U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
INS	5,431,290	7/1995	Vinciguerra			
	5,433,338	7/1995	Proshan			
	5,433,353	7/1995	Flinn			
	5,439,125	8/1995	Bloch			
	5,439,143	8/1995	Brown et al.			
	5,472,122	12/1995	Appleby			
	5,474,028	12/1995	Larson et al.			
	5,477,980	12/1995	Chaffin			
	5,477,994	12/1995	Feer et al.			
	5,490,144	2/1996	Tran et al.			
	5,542,670	8/1996	Morano			

## FOREIGN PATENT DOCUMENTS

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## U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JNS	5,553,726	9/1996	Park	—	—	
	5,607,073	3/1997	Forrer	—	—	
	5,615,809	4/1997	Feer et al.	—	—	
	5,676,289	10/1997	Gross et al.	—	—	
	5,680,969	10/1997	Gross	—	—	
	5,702,025	12/1997	Di Gregorio	—	—	
	5,706,973	1/1998	Robbins III, et al.	220	714	
	5,890,619		Belanger	—	—	
	5,890,620	4/1999	Belcastro	—	—	
	5,890,621	4/1999	Bachman et al.	—	—	
	5,988,425	11/1999	Yehl et al.	220	714	
	6,050,445	4/2000	Manganiello	220	714	

## FOREIGN PATENT DOCUMENTS

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## U. S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
JNS	6,102,245	8/2000	Haberman	220	714	
	6,116,457	9/2000	Haberman	220	714	
	6,422,415		Manganiello	—	—	
	6,568,557		Fusco	—	—	
	D216,730	3/1970	Carslaw	—	—	
	D233,972	12/1974	Juhlin	—	—	
	D247,541	3/1978	Barger	—	—	
	D247,840	5/1978	Dixson	—	—	
	D259,231	5/1981	Kozlow, Sr.	—	—	
	D279,752	7/1985	Jagger	—	—	
	D291,659	9/1987	Powell	—	—	

## FOREIGN PATENT DOCUMENTS

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
INS	D298,717	11/1988	Nichols et al.	—	—	
↓	D359,417	6/1995	Chen	—	—	
↓	RE37,016	1/2001	Morano	220	714	

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